

REFERENCES

- Adamas, P. and K. Brandt. 1998. Update of impacts on quality of inland wetlands of the United States: A survey of indicators, techniques, and applications of community level biomonitoring data. EPA/600/3-90/073. U.S. Environmental Protection Agency, Washington, D.C.
- Applebaum, S. J. and B.M. Brenninkmeyer. 1988. Physical and chemical limnology of Pilgrim Lake, Cape Cod, Massachusetts. Department of Geology and Geophysics, Boston College. Chestnut Hill, MA.
- Appleton, E. 1994. The war on waste: National parks as dumping grounds for hazardous wastes. *National Parks*. 68(9-10):37.
- ATP Environmental. 1995. Comprehensive site assessment report, Eastham Municipal Landfill. ATP Environmental, Melrose, MA.
- Bachand, R.R. and W.A. Patterson III. 1992. Identifying upland to wetland transitions in the Cape Cod National Seashore: A multivariate approach to long term monitoring. Proceedings of the 7th Conference on Research and Resource Management in Parks and Public Lands. W. Brown and S. Veirs, Jr. eds. George Wright Society, Hancock, MI.
- Barlow, P.M. 1994a. Two- and three-dimensional pathline analysis of contributing areas to public-supply wells of Cape Cod, Massachusetts. *Groundwater*, 32(5):399-410.
- Barlow, P.M. 1994b. Particle tracking analysis of contributing areas of public supply wells in simple and complex flow systems, Cape Cod, Massachusetts. U.S. Geological Survey Open File Report 93-159. U.S. Geological Survey, Reston, VA.
- Barlow, P.M. and K.M. Hess. 1993. Simulated hydrologic responses of the Quashnet River stream - aquifer system to proposed ground water withdrawals, Cape Cod, Massachusetts. U.S. Geological Survey Water Resources Investigations Report 93-4064. U.S. Geological Survey, Marlborough, MA.
- Blood, D., L. Lawrence and J. Gray. 1991. Fisheries-oceanography coordinated investigations. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Technical Information Service, Seattle, WA.
- Brandes, M. 1977. Effective phosphorus removal by adding alum to septic tank. @ *Jour. Water Pollut. Control Fed.*, 49(11):2285-2296.
- Brenninkmeyer, B.M. and J. Connet. 1987. Salt Meadow: The history and hydrology of a Cape Cod wetland. Department of Geology and Geophysics, Boston College, Boston, MA.
- Bricker-Urso, S., S.W. Nixon, J.K. Cochran, D.J. Hirshberg and C. Hunt. 1989. Accretion rates and sediment accumulation in Rhode Island salt marshes. *Estuaries*, 12:300-317.
- Brownlow, A.H. 1979. Cape Cod environmental atlas. Department of Geology, Boston University, Boston, MA.
- Cambareri, T.C. 1986. Hydrogeology and hydrochemistry of a sewage effluent plume in the Barnstable Outwash of the Cape Cod Aquifer Hyannis, Massachusetts. M.S. Thesis. University of Massachusetts, Amherst, MA .

- Cambareri, T., G. Belfit, D. Janik, P. Irvin, B. Campbell, D. McCaffery and A. Carbonell. 1989a. Truro/Provincetown aquifer assessment and groundwater protection plan. Cape Cod Planning and Economic Development Commission Water Resources Office, Barnstable, MA.
- Cambareri, T., G. Belfit and D. Janik. 1989b. Hydrogeologic assessment of the Truro Landfill, Truro, Massachusetts. Cape Cod Planning and Economic Development Commission Water Resources Office, Barnstable, MA.
- Cantor, L.W. and R.C. Knox. 1985. Septic tank system effects on groundwater quality. Lewis Publishers, Chelsea, MI.
- Cape Cod Commission. 1991. Cape Cod Commission Regional policy plan and atlas. Barnstable, MA.
- Cape Cod Planning and Economic Development Commission. 1978. Environmental Impact Statement and 208 Water quality management plan for Cape Cod, vol. 1 and 2.
- Carlson, L., M. Babione, P. J. Godfrey and A. Fowler. 1991. Final report: Ecological survey of the heathlands in Cape Cod National Seashore, Massachusetts. Botany Department, University of Massachusetts, Amherst, MA.
- Coastal Engineering Co., Inc. 1992. Initial site assessment report (ISA) of Orleans Sanitary Landfill. Orleans, MA.
- Coastal Engineering Co., Inc. 1993. Initial site assessment report (ISA) of Wellfleet Sanitary Landfill. Orleans, MA.
- Colburn, E.A. 1996. Assessment of relationships between hydrology and the freshwater fauna of kettle ponds and vernal pools. A proposal to the National Park Service, Cape Cod National Seashore, MA.
- Cowardin, L.M., V. Carter, F.C. Golet and E.T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. FWS/OBS-79/31. U.S. Fish and Wildlife Service, Washington, D.C.
- D'Avanzo, C. and J. N. Kremer. 1994. Diel oxygen dynamics and anoxic events in an eutrophic estuary of Waquoit Bay, Massachusetts. *Estuaries*, 17(1B):131-139.
- Desimone, L.A. and B.L. Howes. 1995. Hydrogeologic, water quality, and biogeochemical data collected at a septage treatment facility, Orleans, Cape Cod, Massachusetts, October 1988 through December 1992. U.S. Geological Survey Open File Report 95-439. U.S. Geological Survey, Marlborough, MA.
- Desimone, L.A. and B.L. Howes. 1996. Denitrification and nitrogen transport in a coastal aquifer receiving wastewater discharge. *Environmental Science and Technology*, 30(4).
- Dillon, P.J. and F.H. Rigler. 1974. The phosphorus-chlorophyll relationship in lakes. *Limnology and Oceanography*, 19:767-773.
- Durbin, A.G., S.W. Nixon and C.A. Oviatt. 1979. Effects of the spawning migration of the alewife, *Alosa pseudoharengus*, on freshwater ecosystems. *Ecology*, 60(1):8-17.
- East Cape Engineering. 1996. Truro Landfill initial site assessment report (ISA). East Cape Engineering, Orleans, MA.

- Eichner, E.M. and T.C. Cambareri. 1991. Nitrogen loading. Cape Cod Planning and Economic Development Commission Water Resources Office. Technical Report 91-001. Barnstable, MA.
- Eichner, E.M., T.C. Cambareri, and K. Livingston. 1996. Groundwater impacts associated with the removal of the tide gate and dike structures on the Pamet River, Truro, Massachusetts. Cape Cod Commission. Barnstable, MA.
- Emery, K.O. and A.C. Redfield. 1969. Report on a survey of Pilgrim Lake. The Scientific Advisory Committee, Cape Cod National Seashore, Wellfleet, MA.
- Essaid, H.I. 1990. The computer model SHARP, a quasi three-dimensional finite difference model to simulate freshwater and saltwater flow in layered coastal aquifer systems. USGS Water Resources Investigation report 90-4130. U.S. Geological Survey, Melano Park, CA.
- Fetter, C.W. 1994. Applied Hydrogeology. Macmillan College Publishing Company, New York, NY.
- Fitterman, D.V., G.A. Brooks and S.L. Snyder. 1989. Geophysical investigation of depth to saltwater near the Herring River (Cape Cod National Seashore), Wellfleet, Massachusetts. U.S. Geological Survey Open File Report 89-677. U.S. Geological Survey, Washington, D.C.
- Fitterman, V. and F. Dennehy, 1991. Verification of geophysically determined depths to saltwater near the Herring River (Cape Cod National Seashore), Wellfleet, Massachusetts. National Park Service, North Atlantic Region, Office of Scientific Studies, Wellfleet, MA.
- Freda, J. 1986. The influence of acidic pond water on amphibians: A review. *Water, Air and Soil Pollution*, 30:439-450.
- Freeze, R.A. and J.A. Cherry. 1979. Groundwater. Prentice-Hall, Englewood Cliffs, NJ.
- Frimpter, M.H. and G.C. Belfit. 1992. Estimation of high ground water levels for construction and land use planning: A Cape Cod, Massachusetts example. Cape Cod Commission Technical Bulletin 92-001. Cape Cod Commission, Barnstable, MA.
- Frimpter, M.H. and F.B. Gay. 1979. Chemical quality of ground water on Cape Cod, Massachusetts. U.S. Geological Survey Water Resources Investigations Report 79-65. U.S. Geological Survey, Reston, VA.
- Frolich, R.K. 1991. Geoelectrical survey for locating groundwater pollution from a landfill northwest of Provincetown, Cape Cod, Massachusetts. Department of Geology, University of Rhode Island, Kingston, RI.
- Giese, G., C.T. Fredrichs, D.G. Aubrey, and R.G. Lewis II. 1993. Application and assessment of a shallow-water tide model to Pamet River, Truro, Massachusetts. Woods Hole Oceanographic Institution and Massachusetts Institute of Technology, Woods Hole, MA.
- Giese, G. and M.J. Mello. 1985. A brief history of the Pamet River system with recommendations for environmental studies and accompanied by two maps. The Center for Coastal Studies; Provincetown, MA.
- Goetz, W.J., C.R. Harper, C.E. Willis and J.T. Finn. 1991. Effects of land uses and hydrologic characteristics on nitrate and sodium in ground water. Water Resources Research Center, University of Massachusetts, Amherst, MA.

- Grant, R.R. and R. Patrick. 1970. Tinicum Marsh as water purifier. pp.105-123. *in* Two studies of Tinicum Marsh. The Conservation Foundation, Washington, D.C.
- Griffith, G.E., J.M. Omernik, S.M. Pierson and C.W. Kiilsgaard. 1994. Massachusetts Ecological Regions Project. U.S. Environmental Protection Agency, Boston, MA.
- Godfrey, P.J., M. Soukup and M. Benedict. 1978. A guide to the ecology of Cape Cod National Seashore. DRAFT. National Park Service Cooperative Research Unit, University of Massachusetts, Amherst, MA.
- Godfrey, P.J., M. Mattson, M. Walk, P. Kerr, T. Zajicek and A. Ruby III. 1996. The Massachusetts Acid Rain Monitoring Project: Ten years of monitoring Massachusetts lakes and streams with volunteers. Water Resources Research Center. Publication 171. University of Massachusetts, Amherst, MA.
- Guswa, J.H. and D.R. LeBlanc. 1981. Digital models of ground water flow in the Cape Cod aquifer system, Massachusetts. U.S. Geological Survey Water Resources Investigations Open File Report 80-67. U.S. Geological Survey, Boston, MA.
- Haines, T. 1996. Evaluate mercury contamination in aquatic environments of Acadia National Park and Cape Cod National Seashore, Progress Report. RMP Project Statement ACAD-N-74.000. Acadia National Park, ME.
- Harper, C.R., W.J. Goetz and C.E. Willis. 1992. Groundwater protection in mixed land-use aquifers. *Environmental Management*, 16(6):777-783.
- Harris, S.L. and P.A. Steeves. 1994. Identification of potential public water supply areas of the Cape Cod aquifer, Massachusetts, Using a geographic information system. U.S. Geological Survey Water Resources Investigations Report 94-4156. U.S. Geological Survey, Marlborough, MA.
- Harvey, R. W. 1989. Transport of microspheres and indigenous bacteria through a sandy aquifer: Results of natural- and forced-gradient tracer experiments. *Environmental Science Technology*, 23(1):51-56.
- Hatfield, K., N. Samani and R. Noss. 1994. Minimum impact modeling of nonpoint-source ground-water pollution. *Journal of Irrigation and Drainage Engineering*, 120(1).
- Hinds, H.R. and W.A. Hathaway. 1968. Wildflowers of Cape Cod. The Chatham Press, Chatham, MA.
- Horsley & Witten, Inc. 1993, 1996. Evaluation of kettle pond hydrology of Gull and Duck ponds, Wellfleet, Massachusetts. DRAFT. Horsley & Witten, Inc., Barnstable, MA.
- Hoyte, J.S., D.S. Greenbaum and T.C. McMahon. 1988. Nonpoint source management plan. Commonwealth of Massachusetts, Department of Environmental Protection, Boston, MA.
- Jackson, S.D. and C.R. Griffin. 1991. Effects of pond chemistry on two syntopic mole salamanders, *Ambystoma Jeffersonianum* and *A. Maculatum*, in the Connecticut Valley of Massachusetts. Water Resources Research Center. Publication 163. University of Massachusetts, Amherst, MA.
- Janik, D.S. 1987. The state of the aquifer report, Outer Cape lenses. Cape Cod Planning and Economic Development Commission Water Resources Office, Barnstable, MA.

- J.M. Cortell and Associates, Inc. 1983. Wetland survey: Provincetown and Truro sub-basins. Final Report CX-1600-0-0040. Boston, MA.
- Jones, K. 1992. Cape Cod National Seashore reptile and amphibian survey. CACO Natural Resource Report 92-04. Cape Cod National Seashore, South Wellfleet, MA.
- Kedzierski, J., H. Sullivan and C. Demos. 1998. Pamet River Investigation. U.S. Army Corps of Engineers, New England District, Concord, MA.
- Killian, J.C. 1985. Cape Cod National Seashore land protection plan. Cape Cod National Seashore, South Wellfleet, MA.
- Lazell, J.D., Jr. 1972. This broken archipelago: Cape Cod and the islands, Amphibians and reptiles. Quadrangle/The New York Times Book Co., New York, NY.
- LeBlanc, D. 1982. Potential hydrologic impacts of ground water withdrawal from the Cape Cod National Seashore, Truro, Massachusetts. U.S. Geological Survey Open File Report 82-438. U.S. Geological Survey, Reston, VA.
- LeBlanc, D. 1984. Sewage plum in a sand and gravel aquifer, Cape Cod, Massachusetts. U.S. Geological Survey Water-Supply Paper 2218. U.S. Geological Survey, Reston, VA.
- LeBlanc, D., J. Guswa, M. Frimpter and C. Londquist. 1986. Ground water resources of Cape Cod, Massachusetts. U.S. Geological Survey Hydrologic Investigations Atlas HA-692. U.S. Geological Survey, Reston, VA.
- LeBlond, R. 1990. Rare vascular plants of Cape Cod National Seashore. Center for Coastal Studies, Technical Report. Provincetown, MA.
- Letty, D.F. 1984. Ground water and pond levels, Cape Cod, Massachusetts, 1950-1982. U.S. Geological Survey Open-File Report 84-719. U.S. Geological Survey, Boston, MA.
- Manski, D. 1992. Snow Pond management plan. Cape Cod National Seashore, Wellfleet, MA.
- Marine Research Inc. 1986. Final report: Pamet River study. Contract No. CX1600-4-004. Marine Research Inc., Falmouth, MA.
- Martin, L. 1993. Investigation of effects of ground water withdrawals from the Pamet and Chequesset aquifers, Cape Cod National Seashore. Technical Report NPS/NRWRD/NRTR-93/14. National Park Service, Water Resources Division, Fort Collins, CO.
- Martin, L., J. Portnoy and C. Roman (eds.). 1993. Water quality monitoring plans for kettle ponds, Cape Cod National Seashore: Report of a workshop, March 2-3, 1992. Technical Report NPS/NRWRD/NRTR-93/15. National Park Service, Water Resources Division, Fort Collins, CO.
- Massachusetts Department of Environmental Management. 1994. Water resources of Cape Cod: Water use, hydrology, and potential changes in ground water levels. Executive Office of Environmental Affairs, Office of Water Resources, Boston, MA.
- Massachusetts Department of Environmental Protection. 1997a. Truro Landfill summary information. Department of Environmental Protection Landfill Files. Marlborough, MA.

- Massachusetts Department of Environmental Protection. 1997b. Fish Mercury Distribution in Massachusetts Lakes. Massachusetts Department of Environmental Protection, Boston, MA.
- Massachusetts Department of Environmental Quality Engineering. 1988. 1988 annual report. Division of Water Pollution Control, Boston, MA.
- Massachusetts Department of Environmental Quality Engineering. 1989. Clean Lakes Program Guidelines. General Application Administration, Boston, MA.
- Masterson, J.P. and P.M. Barlow. 1994. Effects of simulated groundwater pumping and recharge on groundwater flow in Cape Cod, Martha's Vineyard, and Nantucket Island basins, Massachusetts. U.S. Geological Survey Open File Report 94-316. U.S. Geological Survey, Marlborough, MA.
- Mather, M. 1998. Patterns and processes for freshwater fish distribution in northeastern National Parks: Inventory, monitoring, and a model of governing processes. Proposal to the National Park Service. Cooperative Fish and Wildlife Unit, University of Massachusetts, Amherst, MA.
- Mattson, M.D. 1995a. Comments on calculating pH statistics. Volunteer Monitor, 1995:17.
- Mattson, M.D. 1995b. Comments on calculating pH statistics. Lakeline, 1995:8-9, 39.
- Mattson, M.D., P.J. Godfrey, M.F. Walk, P.A. Kerr and O.T. Zajicek. 1992. Regional chemistry of lakes in Massachusetts. Water Resources Bulletin, 28(6):1045-1056.
- Mattson, M.D. , P.J. Godfrey, M.F. Walk, P. Kerr and O.T. Zajicek. 1997. Evidence of recovery from acidification in Massachusetts streams. Water, Air and Soil Pollution, 96:211-232.
- McDonald, M.G. and A.W. Harbaugh. 1988. A modular three-dimensional finite-difference groundwater flow model. Techniques of Water Resources Investigations of the United States Geological Survey, Book 6, Chapter A1. U.S. Geological Survey, Washington, D.C.
- Metland Research Group. 1989. Managing adjacent areas: Cape Cod National Seashore case study. Department of Regional Planning/ Landscape Architecture, University of Massachusetts, Amherst, MA.
- Mitchell, N.J. and M. Soukup. 1981. Analysis of water resource management: Alternatives with environmental assessment. Office of Scientific Studies, North Atlantic Region, National Park Service, Department of the Interior in Cooperation with Cape Cod National Seashore, Wellfleet, MA.
- Motzkin, G. 1990. Age structure and successional status of the Marconi Atlantic white cedar swamp, Cape Cod National Seashore, South Wellfleet, Massachusetts. Master ' s Thesis. University of Massachusetts, Amherst, MA.
- Mozgala, W.J. 1974. The Phytoplankton Association of Pilgrim Lake, Cape Cod, Massachusetts. Master ' s Thesis. University of Massachusetts, Amherst, MA.
- National Park Service. 1986. Pamet River study. North Atlantic Region, Office of Scientific Studies, QX86-5. National Park Service, Wellfleet, MA.
- National Park Service. 1995. Baseline water quality data inventory and analysis, Cape Cod National Seashore. Technical Report NPS/NRWRD/NRTR-95/43. National Park Service, Water Resources Division, Fort Collins, CO.

- National Park Service. 1996a. Cape Cod National Seashore resource management plan. Cape Cod National Seashore, Wellfleet, MA.
- National Park Service. 1996b. Salt marsh restoration of Hatches Harbor, Final project implementation. Project Statement. Cape Cod National Seashore, Wellfleet, MA.
- National Park Service. 1996c. Pilgrim Lake project statement. Unpublished. Cape Cod National Seashore, Wellfleet, MA.
- National Park Service. 1998. Cape Cod National Seashore, general management plan. Draft. Cape Cod National Seashore, Wellfleet, MA.
- NESCAUM. 1998. Northeast states and eastern Canadian provinces mercury study: A framework for action, February, 1998. Northeast States for Coordinated Air Use Management, Northeast Waste Management Officials Association, New England Interstate Water Pollution Control Commission, and Canadian Ecological Monitoring and Assessment Network. Boston, MA.
- Nemickas, B., G. Mallard and T. Reilly. 1989. Availability and historical development of ground water resources of Long Island, New York: An introduction. U.S. Geological Survey Water Resources Investigations Report 88-4113. U.S. Geological Survey, Syosset, NY.
- Noake, K.D. 1989. Guide to contamination sources for wellhead protection. Cape Cod Aquifer Management Project (CCAMP) Document. U.S. Environmental Protection Agency, Boston, MA.
- Noss, R.R. 1989. Recharge area land use and well water quality. The Environmental Institute, Publication 89-2. University of Massachusetts, Amherst, MA.
- Noss, R.R., R. Drake and C. Mossman. 1987. Septic tank cleaners: Their effectiveness and impact on groundwater quality. The Environmental Institute, Publication 87-3. University of Massachusetts, Amherst, MA.
- Nowicki, B.L., E. Requentina, D. Van Keuren and J. Portnoy. In press. The role of sediment denitrification in reducing groundwater-derived nitrate input to Nauset Marsh Estuary, Cape Cod Massachusetts. *Estuaries*.
- Nuttle, W. K. 1990. Extreme values of discharge for Mill Creek and options to control flooding from the Herring River. Final report to National Park Service. Cape Cod National Seashore.
- Oldale, R. 1980. A geologic history of Cape Cod. U.S. Geological Survey, Washington, D.C.
- Oldale, R. 1992. Cape Cod and the islands, the geologic story. Parnassus Imprints, East Orleans, MA.
- Oldale, R. and P. Barlow. 1986. Geologic map of Cape Cod and the islands, Massachusetts. U.S. Geological Survey Miscellaneous Investigations Series Map I-1763. U.S. Geological Survey, Washington, D.C.
- Olem, H. and G. Flock (eds.). 1990. Lake and reservoir restoration guidance manual, 2nd edition. EPA 440/4-90-006. Prepared by North American Lake Management Society for U.S. Environmental Protection Agency, Washington, D.C.
- Pelton, D. 1991. Ground water mapping project: Phase I report. Cape Cod National Seashore. CACO Natural Resource Report 91-02. National Park Service, Wellfleet, MA.

- Persky, J.H. 1986. The relation of ground water quality to housing density, Cape Cod, Massachusetts. U.S. Geological Survey Water Resources Investigations Report 86-4093. U.S. Geological Survey, Boston, MA.
- Portnoy, J.W. 1984. Salt marsh diking and nuisance mosquito production on Cape Cod, Massachusetts. J. Amer. Mosq. Cont. Assoc., 44:560-564.
- Portnoy, J.W. 1986. Vernal ponds of the Cape Cod National Seashore: Location, water chemistry, and *ambystoma* breeding biology. Cape Cod National Seashore, Wellfleet, MA.
- Portnoy, J.W. 1990a. A prospectus for salt marsh restoration at Hatches Harbor, Provincetown, Massachusetts. Cape Cod National Seashore, Wellfleet, MA.
- Portnoy, J.W. 1990b. Critical elevations for the Hatches Harbor Salt Marsh Restoration Project: A primer. Cape Cod National Seashore, Wellfleet, MA.
- Portnoy, J.W. 1990c. Breeding biology of the spotted salamander in acidic temporary ponds at Cape Cod, USA. Biological Conservation, 53:61.
- Portnoy, J.W. 1990d. Gull contributions of phosphorus and nitrogen to a Cape Cod kettle pond. Hydrobiologia, 202:61-69.
- Portnoy, J.W. 1991a. Summer oxygen depletion in a diked New England estuary. Estuaries, 14(2): 122-129.
- Portnoy, J.W. 1991b. Pilgrim Lake management and nuisance midge outbreaks: Review and update, CACO. Cape Cod National Seashore, Wellfleet, MA.
- Portnoy, J.W. 1994. Ground water concentrations around Nauset Marsh. Technical Report. National Park Service, Coastal Research Center. NPS/NARURI/NRTR/93-XX. University of Rhode Island, Kingston, RI.
- Portnoy, J.W. 1995. Briefing statement- Kettle ponds. Unpublished. Cape Cod National Seashore, Wellfleet, MA.
- Portnoy, J.W. and A.E. Giblin. 1997a. Effects of historic tidal restrictions on salt marsh sediment chemistry. Biogeochemistry, 36:275-303.
- Portnoy, J.W. and A.E. Giblin. 1997b. Biogeochemical effects of seawater restoration to diked salt marshes. Ecological Applications, 7:1054-1063.
- Portnoy, J.W., B.A. Nowicki, C.T. Roman, and D. Urish. 1998. The discharge of nitrate-contaminated groundwater from developed shoreline to marsh-fringed estuary. Water Resources Research, 34:3095-3104.
- Portnoy, J.W., C. Phipps and B.A. Samora. 1987a. Mitigating the effects of oxygen depletion on Cape Cod National Seashore anadromous fish. Park Science, 8:12-13.
- Portnoy, J. and M. Reynolds. 1997. Wellfleet's Herring River: The case for habitat restoration. Environment Cape Cod, 1:35-43.

- Portnoy, J.W., C.T. Roman and M.A. Soukup. 1987b. Hydrologic and chemical impacts of diking and draining of a small estuary (Cape Cod National Seashore): Effects on wildlife and fisheries. pp. 253-265 *in* Whitman, W.R. & W.H. Meredith (eds.). Proceedings of a Symposium on Waterfowl and Wetlands Management in the Coastal Zone of the Atlantic Flyway. Delaware Coastal Management Program, Dover, DE.
- Portnoy, J.W. and M.A. Soukup. 1988. Can the Cape's diked salt marshes be restored? *The Cape Naturalist*, 17: 28-33.
- Portnoy, J.W. and F. Valiela. 1997. Effects of salinity reduction and drainage on salt marsh biogeochemical cycling and *spartina* production. *Estuaries* 20:569-578.
- Postma, F.B., A.J. Gold, and G.W. Loomis. 1992. Nutrient and microbial movement from seasonally-used septic systems. *Journal of Environmental Health*, 55(2):5-10.
- Reilly, T., M. Frimpter, D. LeBlanc and A. Goodman. 1987. Analysis of steady-state salt-water upconing with application at Truro Well Field, Cape Cod, Massachusetts. *Groundwater*, 5(2).
- Rojko, A.M. and W.A. Kimball. 1995. Designated outstanding resource waters of Massachusetts. Massachusetts Surface Water Quality Standards Program. Massachusetts Department of Environmental Protection, Boston, MA.
- Roman, C.T. 1987. An evaluation of alternatives for estuarine restoration management: The Herring River ecosystem (Cape Cod National Seashore). National Park Service Coop Research Unit, Center for Coastal and Environmental Studies, Rutgers, NJ.
- Roman, C.T., K.W. Able, M.A. Lazzari and K.L. Heck. 1990. Primary productivity of angiosperm and macroalgae dominated habitats in a New England salt marsh: A comparative analysis. *Estuarine, Coastal and Shelf Science*, 30:35.
- Roman, C.T. and D. Manski. 1993. A proposal for Cape Cod National Seashore to serve as a prototype monitoring program for the Atlantic/Gulf Coast biogeographic region. National Park Service-University of Rhode Island Cooperative Research Unit, Kingston, RI.
- Roman, C.T., R.W. Garvine and J.W. Portnoy. 1995a. Hydrologic modeling as a predictive basis for ecological restoration of salt marshes. *Environmental Management*, 19(4):559.
- Roman, C.T., J. Portnoy, T. C. Cambareri and R. Sobczak. 1996. Potential groundwater withdrawal effects on plant distributions, soils and water chemistry of seasonally-flooded wetlands and kettle ponds of Cape Cod National Seashore. Proposal to the National Park Service, Water Resources Division, Fort Collins, CO.
- Ryan, B.J. 1980. Cape Cod aquifer, Cape Cod, Massachusetts. U.S. Geological Survey Water-Resources Investigations 80-571. U.S. Geological Survey, Washington, D.C.
- Samora, B.A. 1988. Draft management plan for freshwater kettle ponds of Cape Cod National Seashore: Spectacle Pond in Wellfleet and Snow Pond and Round Pond (W) in Truro. DRAFT. Cape Cod National Seashore, Wellfleet, MA
- Sarkar, S. 1996. Ecological theory and anuran declines. *BioScience*, 46(3).
- SEA Consultants Inc. 1992. Provincetown sanitary landfill comprehensive site assessment. Cambridge, MA.

- SEA Consultants Inc. 1994. Provincetown groundwater report- Revised. Cambridge, MA.
- Shapiro, J. 1990. Biomanipulation: The next phase- Making it stable. *Hydrobiologia*, 200/201:13-27.
- Shortelle, A.B. and E.A. Colburn. 1986. Physical, chemical and biological impacts of liming on a Cape Cod kettle pond. Status Report to the Massachusetts Division of Fisheries and Wildlife, Westborough, MA.
- Shipley, S. and R. Prescott. 1989. 1989 Diamondback terrapin study of Wellfleet Harbor. Massachusetts Audubon Society, Lincoln, MA.
- Simpson, J.T. 1991. Volunteer lake monitoring: A methods manual. U.S. EPA 440/4-91-002. U.S. Environmental Protection Agency, Washington, D.C.
- Sinicrope, T.L., P.G. Hine, R.S. Warren and W.A. Niering. 1990. Restoration of an impounded salt marsh in New England. *Estuaries*, 13:25-30.
- Sit, M. February 26, 1995. Sewage disposal shutdown. *Boston Globe*, Real Estate, p.A1.
- Smardon, R.C. 1972. Assessing visual-cultural values of inland wetlands in Massachusetts. Master's Thesis. University of Massachusetts, Amherst, MA.
- Smardon, R.C. and J.G. Fabos. 1983. A model for assessing visual-cultural values of wetlands: A Massachusetts case study. *In* R.C. Smardon, ed. The future of wetlands: Assessing visual-cultural values. Allanheld, Osmun Publishers, Totowa, NJ.
- Sobczak, B. and T. Cambareri. 1995. Lower Cape Water Management Task Force interim report, fall 1995. Cape Cod Planning Commission, Barnstable, MA.
- Sobczak, B. and T. Cambareri. 1996. Draft of recommendations of the Lower Cape Water Management Task Force. Cape Cod Planning Commission, Barnstable, MA.
- Soukup, M.A. 1977. Limnology and management of freshwater ponds of Cape Cod National Seashore. Technical Report. National Park Service, Boston, MA.
- Soukup, M.A. and J.W. Portnoy. 1986. Impacts from mosquito control-induced sulfur mobilization in a Cape Cod estuary. *Environmental Conservation*, 13(1):47-50.
- Strahler, A. 1966. A geologist's view of Cape Cod. The Natural History Press, Garden City, NY.
- Thorntwaite, C.W. and J.R. Mather. 1957. Instructions and tables for computing potential evapotranspiration and the water balance. *Climatology*, X(3).
- Town of Eastham. 1996. Eastham local comprehensive plan. Eastham Draft Local Planning Committee and Thomas Planning Consultants, Inc., Boston, MA.
- Town of Truro. 1994. Truro comprehensive plan. Truro, MA.
- Town of Wellfleet. 1996. Wellfleet local comprehensive plan. Wellfleet, MA.
- Town of Provincetown. 1988. Provincetown master plan. Lane Kendig, Inc. Provincetown, MA.

- Urish, D.W., M.J. O'Reilly, R.M. Wright and R.K. Frohlich. 1993. Assessment of ground and surface water impacts: Provincetown landfill and septic disposal Site, Provincetown, Massachusetts. Technical Report NPS/NARURI/NRTR-93-01. National Park Service. University of Rhode Island, Kingston, RI.
- Urish, D.W., M. O'Reilly, R. Wright and R.K. Frohlich. 1993. Assessment of ground and surface water impacts: Provincetown landfill and septic disposal site, Provincetown, Massachusetts. National Park Service Coastal Research Center Cooperative Park Studies Unit, Cape Cod National Seashore, Wellfleet, MA.
- U.S. Environmental Protection Agency. 1986. Characteristics of lakes in the eastern United States. Volume 1: Population descriptions and physico-chemical relationships. EPA/600/486/077a. U.S. Environmental Protection Agency, Washington, D.C.
- U.S. Environmental Protection Agency. 1992. Guidance specifying management measures for nonpoint pollution in coastal waters. EPA 840-B-92-002. U.S. Environmental Protection Agency, Washington D.C.
- U.S. Soil Conservation Service. 1993. Barnstable County soil survey. U.S. Department of Agriculture Soil Survey. Washington, D.C.
- Valiela, I., J. Teal, S. Volkmann, D. Shafer and E. Carpenter. 1978. Nutrient and particulate fluxes in a salt marsh ecosystem: Tidal exchanges and inputs by precipitation and groundwater. *Limnology Oceanography*, 23(4):798-812.
- Valiela, I. and J. Teal. 1979. The nitrogen budget of a salt marsh ecosystem. *Nature*, 280(23):652-656.
- Valiela, I., K. Foreman, M. La Montagne, D. Hersh, J. Costa, P. Peckol, B. De-Meo-Anderson, C. D'Avanzo, M. Babione, C. Sham, J. Brawly and K. Lajtha. 1992. Couplings of watersheds and coastal waters: Sources and consequences of nutrient enrichment in Waquoit Bay, Massachusetts. *Estuaries*, 15(4):443-457.
- Valiela, I., G. Collins, J. Kremer, K. Lajtha, M. Geist, B. Seely, J. Brawly and C.H. Sham. 1997. Nitrogen loading from coastal watersheds to receiving estuaries: New method and application. *Ecology Applied*, 7:358-380.
- Veneman, P.L.M. and E.S. Winkler. 1992. Denitrification system for onsite wastewater treatment. Water Resources Research Center, Publication 167. University of Massachusetts, Amherst, MA.
- Veneman, P.L.M. Unpublished. Onsite sewage treatment and disposal system performance, Environmental and public health aspects.
- Walk, M.F.I., P.J. Godfrey, A. Ruby III, O.T. Zajicek and M. Mattson. 1992. Acidity status of surface waters in Massachusetts. *Water, Air, and Soil Pollution*, 63:237.
- Walter, D.A., B.A. Rea, K.G. Stollenwerk and J. Savoie. 1996. Geochemical and hydrologic controls on phosphorous transport in a sewage-contaminated sand and gravel aquifer near Ashumet Pond, Cape Cod, Massachusetts. U.S. Geological Survey Water-Supply Paper 2463. U.S. Geological Survey, Marlborough, MA.
- Weintraub, J.M. 1988. Private well contamination in Massachusetts. The Special Legislative Commission on Water Supply. Department of Environmental Protection, Boston, MA.

- Weiskel, P.K., B.L. Howes and G.R. Heufelder. 1996. Coliform contamination of a coastal embayment: Sources and transport pathways. *Environmental Science and Technology*, 30: 1872-1881.
- Weiskel, P.K and T. Cambareri. 1998. Scope of work: Development of protocols for long-term hydrologic monitoring at the Cape Cod National Seashore, Massachusetts. Cape Cod Commission, Barnstable, MA.
- Wilson, J. and R. Schreiber. 1981. Analysis of groundwater development of the Truro aquifer. Camp Dresser and McKee Inc. Boston, MA.
- Winkler, M.G. 1985. A 12,000 year history of vegetation and climate for Cape Cod, Massachusetts. *Quaternary Research*, 23:301.
- Winkler, M.G. 1994a. Modern limnology of the Provincelands Ponds for comparison with recent changes in the biota of Duck and Bennett ponds adjacent to the Provincetown Landfill. NPS Technical Report NPS/NAROSS/NRTR-94-20. National Park Service, Boston, MA.
- Winkler, M.G. 1994b. Development of the Gull Pond chain of lakes and the Herring River Basin. Cape Cod National Seashore Report. Cape Cod National Seashore, Wellfleet, MA.
- Winkler, M.G. 1996. The development of Ryder Pond in the Cape Cod National Seashore and determination of the causes of recent Ryder Pond water chemistry changes. Final Report to the National Park Service, North Atlantic Region, Wellfleet, MA.
- Zeigler, J.M., S.D. Tuttle, G.S. Giese, and H.J. Tesha. 1965. The age and development of the Provincelands Hook, outer Cape Cod, Massachusetts. *Limnology and Oceanography* 10:298-311.
- Zoto, G.A. and T. Gallagher. 1988. Cape Cod aquifer management project (CCAMP) final report. U.S. Environmental Protection Agency, Boston, MA.

